

surgically facilitated orthodontic therapy

surgically facilitated orthodontic therapy is an advanced dental treatment approach that combines surgical techniques with conventional orthodontic methods to accelerate tooth movement and improve clinical outcomes. This therapy is particularly beneficial for patients with complex orthodontic cases, including severe malocclusions, impacted teeth, or those requiring rapid correction. By integrating surgical intervention, the biological response of the bone is enhanced, allowing for more efficient tooth repositioning. This article offers an in-depth exploration of surgically facilitated orthodontic therapy, covering its definition, procedures, benefits, risks, and patient candidacy. Furthermore, it discusses post-treatment care and recent advancements in the field, providing a comprehensive understanding for dental professionals and patients alike.

- Understanding Surgically Facilitated Orthodontic Therapy
- Procedures Involved in Surgically Facilitated Orthodontic Therapy
- Benefits of Surgically Facilitated Orthodontic Therapy
- Risks and Considerations
- Patient Selection and Candidacy
- Post-Treatment Care and Maintenance
- Recent Advances and Future Directions

Understanding Surgically Facilitated Orthodontic Therapy

Surgically facilitated orthodontic therapy (SFOT) is a specialized treatment modality where surgical procedures are employed to enhance the effectiveness of conventional orthodontic interventions. This therapeutic approach is designed to overcome biological limitations in tooth movement, particularly in adult patients where bone density and remodeling rates may slow the orthodontic process. By incorporating surgical techniques such as corticotomy, piezocision, or micro-osteoperforations, the alveolar bone's remodeling is stimulated, leading to accelerated tooth movement and reduced treatment duration.

Definition and Scope

Surgically facilitated orthodontic therapy refers to any orthodontic treatment that is assisted by surgical intervention to improve outcomes. It is often used interchangeably with terms like accelerated orthodontics or adjunctive surgical orthodontics. The therapy encompasses a variety of surgical methods aimed at modifying bone physiology to make teeth more responsive to orthodontic forces.

Biological Basis

The biological foundation of SFOT lies in the regional acceleratory phenomenon (RAP), a localized healing response that occurs following surgical injury to bone. This phenomenon temporarily decreases bone density and increases bone turnover, thereby facilitating faster tooth movement. Understanding RAP is crucial for clinicians to time orthodontic forces appropriately after surgery to maximize treatment efficiency.

Procedures Involved in Surgically Facilitated Orthodontic Therapy

The surgical component of SFOT involves minimally invasive techniques targeted at the alveolar bone surrounding the teeth. These procedures are carefully planned and executed to optimize bone remodeling while minimizing patient discomfort and recovery time.

Corticotomy

Corticotomy is a surgical procedure involving selective cuts or perforations in the cortical bone to stimulate RAP. Traditionally performed using manual instruments or surgical burs, corticotomy allows for rapid tooth movement by reducing bone resistance. It is often combined with orthodontic appliances to achieve accelerated results.

Piezocision

Piezocision is a less invasive alternative to traditional corticotomy that utilizes ultrasonic vibrations to create micro-incisions in the bone through small gingival incisions. This technique minimizes soft tissue trauma and enhances patient recovery while still promoting efficient bone remodeling.

Micro-Osteoperforations

Micro-osteoperforations involve creating small perforations in the alveolar bone using specialized devices, stimulating the biological response necessary for accelerated orthodontics. This procedure is typically performed without flap elevation, reducing surgical morbidity.

Orthodontic Treatment Integration

Following the surgical intervention, orthodontic appliances such as braces or clear aligners are applied or adjusted to capitalize on the increased bone remodeling activity. The timing and force application are critical to ensure optimal tooth movement and treatment outcomes.

Benefits of Surgically Facilitated Orthodontic Therapy

Surgically facilitated orthodontic therapy offers several advantages over conventional orthodontic treatment, particularly in cases requiring expedited or complex tooth movement.

Accelerated Treatment Time

One of the primary benefits of SFOT is the significant reduction in overall treatment duration. By enhancing bone remodeling, tooth movement can be expedited by up to 50%, allowing patients to achieve desired results more quickly.

Improved Orthodontic Outcomes

SFOT can improve the predictability and stability of orthodontic results, particularly in difficult cases such as impacted teeth or severe crowding. The enhanced biological response contributes to better bone support and tooth positioning.

Reduced Risk of Root Resorption

Accelerated tooth movement facilitated by surgical techniques may reduce the risk of root resorption, a common complication associated with prolonged orthodontic treatment. By shortening the treatment time, the exposure of roots to orthodontic forces is minimized.

Enhanced Patient Comfort

Minimally invasive surgical methods used in SFOT often result in less postoperative discomfort compared to traditional surgical exposures, improving patient experience overall.

Risks and Considerations

Despite its benefits, surgically facilitated orthodontic therapy carries certain risks and requires careful case selection and management.

Surgical Complications

Potential complications include infection, swelling, bleeding, and temporary or permanent nerve damage. These risks can be mitigated by employing experienced surgical techniques and proper postoperative care.

Patient Discomfort and Recovery

Although less invasive methods reduce morbidity, patients may still experience discomfort, pain, or swelling following the surgical procedures. Adequate pain management and patient education are essential components of care.

Cost and Accessibility

SFOT procedures can be more costly than conventional orthodontics due to the additional surgical intervention and associated clinical resources. Additionally, not all orthodontic practices offer these advanced techniques, potentially limiting accessibility.

Patient Selection and Candidacy

Identifying appropriate candidates for surgically facilitated orthodontic therapy is critical to achieving optimal outcomes and minimizing risks.

Ideal Candidates

Ideal candidates are typically adult patients with good overall health who require accelerated treatment or have challenging orthodontic conditions such as:

- Severe malocclusion
- Impacted or ankylosed teeth
- Limited bone density or thickness
- Need for rapid tooth movement due to time constraints

Contraindications

Patients with systemic health issues that impair healing, active periodontal disease, or poor oral hygiene may not be suitable for SFOT. Additionally, those with unrealistic expectations or non-compliance may not benefit from this therapy.

Post-Treatment Care and Maintenance

Effective post-treatment care is essential to ensure the longevity and success of surgically facilitated orthodontic therapy.

Immediate Postoperative Care

Following surgical intervention, patients should adhere to prescribed medications, including antibiotics and analgesics, and follow guidelines to minimize swelling and promote healing. Soft diet recommendations and oral hygiene instructions are typically provided.

Orthodontic Follow-Up

Regular orthodontic appointments are necessary to monitor tooth movement, adjust appliances, and assess tissue healing. Close collaboration between the orthodontist and oral surgeon enhances treatment coordination.

Long-Term Maintenance

Retention protocols, including the use of retainers, are critical to prevent relapse. Patients should maintain excellent oral hygiene and attend routine dental check-ups to sustain periodontal health and treatment results.

Recent Advances and Future Directions

Ongoing research and technological advancements continue to refine surgically facilitated orthodontic therapy, improving safety, efficacy, and patient comfort.

Minimally Invasive Techniques

Emerging methods such as laser-assisted corticotomies and refined piezocision techniques aim to reduce surgical trauma further while enhancing biological responses.

3D Imaging and Digital Planning

The integration of 3D imaging modalities and computer-aided treatment planning allows for precise surgical execution and customized orthodontic strategies tailored to individual patient anatomy.

Biological Enhancers

Research into pharmacological agents and growth factors that can mimic or augment the regional acceleratory phenomenon may provide non-surgical alternatives or adjuncts to current SFOT methods in the future.

Frequently Asked Questions

What is surgically facilitated orthodontic therapy (SFOT)?

Surgically facilitated orthodontic therapy (SFOT) is a combination of surgical procedures and orthodontic treatment designed to accelerate tooth movement and improve orthodontic outcomes by enhancing bone remodeling and reducing treatment time.

What are the common surgical techniques used in SFOT?

Common surgical techniques used in SFOT include corticotomy, piezocision, micro-osteoperforations, and alveolar decortication, which help stimulate bone remodeling and facilitate faster orthodontic tooth movement.

Who are ideal candidates for surgically facilitated orthodontic therapy?

Ideal candidates for SFOT are patients requiring complex orthodontic movements, those with prolonged

treatment times, adults with dense bone, or individuals seeking faster results with improved stability and reduced risk of relapse.

What are the benefits of surgically facilitated orthodontic therapy compared to conventional orthodontics?

SFOT offers benefits such as significantly reduced treatment time, enhanced tooth movement efficiency, improved periodontal health, reduced risk of root resorption, and the ability to correct complex malocclusions more effectively than conventional orthodontics alone.

Are there any risks or complications associated with SFOT?

While SFOT is generally safe, potential risks include post-surgical discomfort, swelling, infection, transient tooth sensitivity, and in rare cases, damage to adjacent teeth or nerves. Proper case selection and surgical expertise minimize these risks.

How does SFOT affect the duration of orthodontic treatment?

SFOT can reduce orthodontic treatment duration by approximately 30-50% by accelerating bone remodeling and tooth movement, allowing for faster alignment and correction of malocclusions compared to traditional orthodontic methods.

Is SFOT suitable for all age groups?

SFOT is primarily recommended for adult patients because their bone density and slower tooth movement benefit most from surgical facilitation; however, careful evaluation is required, and it may not be suitable for children or adolescents with developing bones.

Additional Resources

1. Surgically Facilitated Orthodontic Therapy: Principles and Practice

This comprehensive book covers the foundational principles and clinical applications of surgically facilitated orthodontic therapy (SFOT). It explores various surgical techniques used to accelerate tooth movement, including corticotomies and piezocision. Detailed case studies and step-by-step procedural guidelines help clinicians integrate SFOT into their practice effectively.

2. Clinical Applications of Accelerated Orthodontics

Focusing on methods to reduce orthodontic treatment time, this book delves into surgical adjuncts such as alveolar corticotomies and micro-osteoperforations. It provides a clear overview of patient selection, surgical protocols, and postoperative care. The text is enriched with clinical photographs and evidence-based outcomes, aiding practitioners in decision-making.

3. Orthodontic Surgical Techniques for Enhanced Tooth Movement

This title explores various surgical interventions designed to facilitate orthodontic tooth movement. It highlights the biological basis of surgically accelerated orthodontics and presents innovative techniques like minimally invasive corticotomy. The book also addresses complications, risk management, and long-term stability of treatment results.

4. Periodontally Accelerated Osteogenic Orthodontics (PAOO): A Multidisciplinary Approach

Dedicated to the PAOO technique, this book integrates orthodontics, periodontics, and oral surgery to optimize treatment outcomes. It discusses the surgical procedure, bone grafting materials, and orthodontic mechanics involved. The multidisciplinary approach emphasizes improved esthetics, reduced treatment time, and enhanced periodontal health.

5. Minimally Invasive Surgical Techniques in Orthodontics

This book introduces minimally invasive surgical options for facilitating orthodontic therapy, including piezocision and micro-osteoperforations. It outlines indications, contraindications, and the biological effects of these procedures. The concise, practical guidance is ideal for clinicians seeking less invasive alternatives to traditional corticotomy.

6. Surgical-Orthodontic Treatment of Complex Malocclusions

Addressing severe and complex malocclusions, this text integrates surgical facilitation with comprehensive orthodontic treatment planning. It covers pre-surgical orthodontics, surgical techniques, and postoperative orthodontic management. The book is rich with clinical cases demonstrating the synergy between surgery and orthodontics in challenging scenarios.

7. Biologic Foundations of Surgically Facilitated Orthodontics

This book delves into the cellular and molecular mechanisms underlying accelerated tooth movement following surgical intervention. It provides a detailed analysis of bone remodeling, regional acceleratory phenomenon (RAP), and tissue healing processes. Understanding these biological foundations helps clinicians optimize surgical protocols for enhanced treatment efficiency.

8. Guided Bone Regeneration in Orthodontic Therapy

Focusing on bone augmentation techniques adjunctive to orthodontics, this title discusses guided bone regeneration (GBR) in the context of surgically facilitated orthodontics. It covers biomaterials, membrane technology, and clinical case applications. The book emphasizes the importance of maintaining periodontal health while accelerating orthodontic treatment.

9. Evidence-Based Approaches to Accelerated Orthodontics

This text critically reviews the current scientific literature on various surgical and non-surgical approaches to accelerate orthodontic treatment. It evaluates clinical trials, systematic reviews, and meta-analyses to provide evidence-based recommendations. The book aids clinicians in selecting appropriate acceleration techniques based on patient-specific factors and expected outcomes.

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surgically facilitated orthodontic therapy: Surgically Facilitated Orthodontic Therapy

George A. Mandelaris, Brian S. Vence, 2023-06-02 This book covers all aspects of Surgically Facilitated Orthodontic Therapy and is intended to guide practitioners involved in dental interdisciplinary therapy to managing complex cases. It demonstrates the next level of collaboration through managing core problems of the patients and planning cases using digital dentistry for enhanced disclosed and more ideal outcomes. Methods for regaining space appropriation and dentoalveolar bone engineering are illustrated. Emphasis is placed on corticotomy assisted orthodontic therapy and 3D planning in order to help practitioner to achieve outcomes that were previously unrecognized. The book is written by leading experts in the field and is a rich source for periodontists, oral and maxillofacial surgeons, orthodontists and restorative clinicians interested in the subject.

surgically facilitated orthodontic therapy: Biological Mechanisms of Tooth Movement Vinod Krishnan, Ze'ev Davidovitch, 2015-04-29 Biological Mechanisms of Tooth Movement, Second Edition is an authoritative reference to the scientific foundations underpinning clinical orthodontics. Led by an expert editor team and with contributions from an international group of contributors, the book covers key topics including bone biology, the effects of mechanical loading on tissues and cells, genetics, inflammation, tissue remodeling and the effects of diet, drugs, and systemic diseases. Highly-illustrated throughout, this second edition has been fully revised, updated and expanded to new developments in genomics, rapid orthodontics and current controversies in tooth movement research. Trainees, qualified specialists and researchers in orthodontics can rely on this comprehensive text to inform them about the clinical and scientific implications of the biological mechanisms involved in the movement of teeth.

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Moderate mandibular anterior crowding, Functional and aesthetic rehabilitation, Restoration of the anterior segment, Full mouth reconstruction of worn dentition, Interdisciplinary aesthetic treatment, Gummy smile reduction, Diastema closure, and much more!

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surgically facilitated orthodontic therapy: Integrated Clinical Orthodontics Vinod Krishnan, Ze'ev Davidovitch, 2012-01-30 Integrated Clinical Orthodontics provides an important new resource on the clinical interactions between the practice of orthodontics and other areas of clinical dentistry and medicine. Having at its heart the paradigm of patient-centred care, the book not only integrates the knowledge, skills, and experience of all the disciplines of dentistry and medicine, but also eases the work of orthodontists in arriving at an accurate diagnosis and a comprehensive treatment plan. Presented in a highly visual and practical format, Integrated Clinical Orthodontics uses clinical case presentations to illustrate the rationale and application of the integrated approach to a variety of clinical scenarios. Integrated Clinical Orthodontics covers areas of complexity in clinical orthodontics, specifically the role of the orthodontist as a member of a multidisciplinary team. The book outlines and details the management of congenital orofacial deformities, sleep disorders, esthetic smile creation and temporomandibular joint problems, and additionally and importantly includes specific protocols for effective communication with experts in other specialties.

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outcomes. Detailed case studies guide you through the decision-making process, showing the consequences of various treatment techniques over time. Extensive references cite the latest in orthodontic research, so it's easy to follow up on evidence-based information. Authoritative research is provided by a team of three experienced, renowned authors/editors along with a team of worldwide experts. Cutting-edge content includes the latest concepts and techniques in orthodontics, including new coverage of temporary anchorage devices, self-ligating bracket biomechanics, clear aligner treatments, technological advances in imaging, and lasers. Improved organization separates topics into six parts and 29 chapters, enhancing both learning and research. Chapter outlines serve as a handy reference tool for practitioners and researchers. New lead author Dr. Lee Graber adds a fresh perspective to the experience of authors Drs. Robert Vanarsdall Jr., and Katherine W. L. Vig. Access to a companion website includes an electronic version of all chapters, plus case studies, a complete image collection, and supplemental content.

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coverage of orthodontic diagnosis, planning strategies, and treatment protocols, including esthetics, genetics, temporary anchorage devices, aligners, technology-assisted biomechanics, and much more. From respected editors Lee Graber, Robert Vanarsdall, Katherine Vig, and Greg Huang, along with a veritable Who's Who of expert contributors, this classic reference has a concise, no-nonsense approach to treatment that makes it the go-to book for orthodontic residents and practitioners - Comprehensive coverage provides a one-stop resource for the field of orthodontics, including foundational theory and the latest on the materials and techniques used in today's practice. - Experienced, renowned editors lead a team of expert, international contributors, bringing the most authoritative clinical practice and supporting science from the best and brightest in the industry. - More than 3,400 images include a mixture of radiographs, full-color clinical photos, and anatomic or schematic line drawings, showing examples of treatment, techniques, and outcomes. - Extensive references make it easy to look up the latest in orthodontic research and evidence-based information, and all references also appear online. - Detailed, illustrated case studies show the decision-making process, showing the consequences of various treatment techniques over time

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This issue of Oral and Maxillofacial Surgery Clinics of North America is devoted to Dentoalveolar Surgery and is edited by Dr. Somsak Sittitavornwong. Articles will include: Preprosthetic Dentoalveolar Surgery; Management of Impacted Third Molars; Principles of Exodontia; Complications, Including Infections, in Dentoalveolar Surgery; Medical Management of Patient undergoing Dentoalveolar Surgery; Trigeminal Nerve Injury; Oral Soft Tissue Grafting; Current Concepts of Periapical Surgery; Surgical Exposure of Impacted Teeth; Dental Trauma; Tooth Transplantation; Socket Grafting; Maxillary Sinus Diseases; and more!

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Orthognathic Surgery, 2nd Edition covers the concepts and skills required to diagnose and correct dentofacial deformities. Featuring thousands of images, this guide addresses planning, surgical techniques, surgical complications, classic growth patterns, and presentations of dentofacial deformity including common malformations, cleft jaw, and post-traumatic deformities, as well as aesthetic considerations. Case studies and step-by-step videos help you apply concepts and achieve real-life solutions. Written by Jeffrey C. Posnick, a noted expert in facial plastic surgery, this valuable reference will take your orthognathic skills to the next level. An enhanced eBook version included with every new print purchase provides access to a complete, fully searchable version of the text, along with videos of procedures, and much more — available on a variety of devices. - More than 8,000 photos and illustrations boost your understanding of key points and surgical techniques. - Logically organized material aids your thinking prior to developing treatment plans and executing surgery. - Current surgical protocols for Oral and Maxillofacial Surgeons and Orthodontics put you at the forefront of the orthognathic surgery field. - NEW! In-depth content revision and clear artwork are added to this edition. - NEW! Virtual Surgical Planning chapter examines how VSP provides a useful tool for planning surgeries prior to entering the operating room. - NEW! 45 videos depict step-by-step approaches to essential orthognathic procedures and techniques. - NEW! Enhanced eBook version included with every new print purchase provides access to a complete, fully searchable version of the text, along with videos of procedures and much more! - NEW! More case studies are included, each demonstrating long-term results. - NEW! Up-to-date review and analysis of research literature is added.

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ethics, laws and industrial pitfalls that are of particular importance for the future production of tissue constructs. Tissue Engineering is an interdisciplinary field of biomedical research, which combines life, engineering and materials sciences, to progress the maintenance, repair and replacement of diseased and damaged tissues. This ever-emerging area of research applies an understanding of normal tissue physiology to develop novel biomaterial, acellular and cell-based technologies for clinical and non-clinical applications. As evident in numerous medical disciplines, tissue engineering strategies are now being increasingly developed and evaluated as potential routine therapies for oral and craniofacial tissue repair and regeneration. - Diligently covers all the aspects related to stem cell biology and tissue engineering in dental sciences: basic science, research, clinical application and commercialization - Provides detailed descriptions of new, modern technologies, fabrication techniques employed in the fields of stem cells, biomaterials and tissue engineering research including details of latest advances in nanotechnology - Includes a description of stem cell biology with details focused on oral and craniofacial stem cells and their potential research application throughout medicine - Print book is available and black and white, and the ebook is in full color

surgically facilitated orthodontic therapy: Current Approaches in Orthodontics , 2019-04-10 This book provides information on the current technological developments and new concepts in orthodontic treatment procedures. The main concepts of the book are scope innovations in accelerated tooth movement, new developments such as corticotomy, microperforations (MOP), piezosocision, photobiostimulation, laser in orthodontics, chemical agents, as well as complications and risks. The book contains interdisciplinary managements involving surgery first, cleft lip and palate therapy, orthognathic surgery, and obstructive sleep apnea. This internationally-recognized specialty is continuing to experience advancements in technology, instrumentation, and treatment methods.

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Ravindra Nanda, 2014-03-01 Esthetics and Biomechanics in Orthodontics, 2nd Edition provides everything you need to know to successfully apply biomechanics in clinical orthodontics. This edition features new content in the areas of tooth movement, treating Class III malocclusions, skeletal anchorage, Surgery First treatment plans, and space closure. In addition to comprehensive guidance on basic biomechanic principles, this state-of-the-art reference also shows how all techniques can apply biomechanical principles to improve the force delivery, understand and prevent side effects, and achieve predictable results. - Highly regarded lead author, Dr. Ravindra Nanda, is a widely known and respected educator in the field of orthodontics. - Comprehensive coverage of diagnosis, treatment planning, and esthetics in tooth display provides a solid foundation in orthodontia and biomechanic problem solving. - Case reports include high-quality photographs, radiographs, and illustrations to better show biomechanical principles. - Radiographs and line drawings accompany clinical photographs to help illustrate the various stages of treatment. - NEW! Content on the fundamentals that guide orthodontic tooth movement offers a clear understanding of how orthodontic appliances work and their role in designing treatment methodologies. - NEW! Content on procedures and indications for optimal space closure helps you define priorities in treatment planning and understand all the treatment alternatives. - NEW! Detailed information on biomechanics-based management of impacted canines provides treatment planning strategies and biomechanic techniques to achieve desired results without increasing treatment time. - NEW! Coverage on modalities for the treatment of Class III malocclusions offers insight into new treatment protocols — such as corticotomy-assisted facemask therapy and corticotomy-assisted maxillary protraction — that are available to effectively treat these occurrences. - NEW! Detailed information on the different forms of skeletal anchorage (including mini-implant technology) shows how certain challenges associated with types of tooth movement can now be overcome by applying sound biomechanical principles to skeletal anchorage. - NEW! In-depth coverage of the Surgery First (SF) treatment plan offers step-by-step examples to help explain the technique of Sendai SF and its benefits

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A. Kantarci, L. Will, S. Yen, 2015-11-24 With the intention of improving the rate, quality, and stability of orthodontic tooth movement, those in the field are now moving toward accomplishing this 'acceleration' with minimally or non-invasive methods. New procedures have been widely tested in humans, animal models, and in vitro. While interest is growing both in the industry and at the clinical level, the understanding of the biology is limited. Considering that a simple increase in force will result in tooth morbidity and arrest of the tooth migration, a multi-disciplinary approach is critical for success. This publication brings together multi-disciplinary expertise on a wide variety of processes related to and involved in orthodontic tooth movement. The premise is that, by better understanding the biological structures and the mechanism through which they respond to biomechanical forces, one can get a better assessment of the 'acceleration'. This work presents research aimed at an improved understanding of conventional and accelerated orthodontic tooth movement from a biological perspective and will be of great value to clinicians, researchers, academics, and students.

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